



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
China - Pakistan Economic Corridor (CPEC), Western Route, Construction of Hakla (on M-1)
Yarak (D.I Khan) Motorway, Package-3 (Tarap to kot Belian)

Reference # CED/TFL **35986** (Dr. Ali Ahmed) Dated: 25-01-2021
Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/21/1786 Dated: 12-01-2021

Tension Test Report (Page – 1/3)

Date of Test 28-01-2021
Gauge length 2 inches
Description Foldable Barrier (Sq. Pipe & Round Pipe) Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Sq. Pipe	15.60x1.70	26.52	-----	16.20	-----	610.86	0.60	30.00	
2		15.60x1.70	26.52	-----	18.50	-----	697.59	0.60	30.00	
3	Sq. Pipe	21.00x1.60	33.60	-----	18.20	-----	541.67	0.65	32.50	
4		21.00x1.60	33.60	-----	18.20	-----	541.67	0.70	35.00	
5	Round Pipe	21.20x1.60	33.92	9.00	11.20	265.33	330.19	0.80	40.00	
6		21.30x1.60	34.08	9.20	11.50	269.95	337.44	0.90	45.00	
Only Six Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
Resident Engineer
NESPAK
China - Pakistan Economic Corridor (CPEC), Western Route, Construction of Hakla (on M-1)
Yarak (D.I Khan) Motorway, Package-3 (Tarap to kot Belian)

Reference # CED/TFL **35986** (Dr. Ali Ahmed) Dated: 25-01-2021
Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/21/1786 Dated: 12-01-2021

Weight & Size Test Report (Page – 2/3)

Date of Test 28-01-2021
Description Foldable Barrier (Sq. Pipe) Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Outer Dimension		Wall Thickness	Remark
					X	Y		
	-----	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	Sq. Pipe	270	189.10	1.43	31.60	31.60	1.70	
2	Sq. Pipe	137	79.50	1.72	38.20	39.00	1.60	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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To,
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China - Pakistan Economic Corridor (CPEC), Western Route, Construction of Hakla (on M-1)
Yarak (D.I Khan) Motorway, Package-3 (Tarap to kot Belian)

Reference # CED/TFL **35986** (Dr. Ali Ahmed) Dated: 25-01-2021
Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/21/1786 Dated: 12-01-2021

Weight & Size Test Report (Page – 3/3)

Date of Test 28-01-2021
Description Foldable Barrier (Round Pipe) Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
1	Round Pipe	330	232.4	1.42	38.20	35.00	1.6	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

I/C Testing Laboratories
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Buildings Sub Division
 Noorpur Thal
 Up-Gradation of Govt. Boys Primary School Goley Wali to Elementary Level.

Reference # CED/TFL **35996** (Dr. Usman Akmal)
 Reference of the request letter # 149/N

Dated: 27-01-2021
 Dated: 15-12-2020

Tension Test Report (Page -1/1)

Date of Test 28-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3/8	0.374	0.11	0.110	3500	5300	70200	70350	106200	106600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Finite – CPM Jv
Improvement, Upgradation and Widening of Jaglot-Skardu (S-I) Road (164 km) on
Supplier/Buyer Credit Basis (EPC/Turnkey)
Reference # CED/TFL **35997** (Dr. Usman Akmal)
Reference of the request letter # FC/JV/JSR/2020/RE/F-223

Dated: 27-01-2021
Dated: 28-12-2020

Tension Test Report (Page – 1/5)

Date of Test 28-01-2021
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)			
1	12.70 (1/2")	775.0	782.0	18500	181.49	20500	201.11	199	>3.50	21686
2	12.70 (1/2")	775.0	775.0	18500	181.49	20000	196.20	198	>3.50	21687
3	12.70 (1/2")	775.0	779.0	17400	170.69	19600	192.28	199	>3.50	21688
4	12.70 (1/2")	775.0	786.0	18000	176.58	20200	198.16	199	>3.50	21689
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only four samples for Test

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires
UET Lahore, Pakistan.

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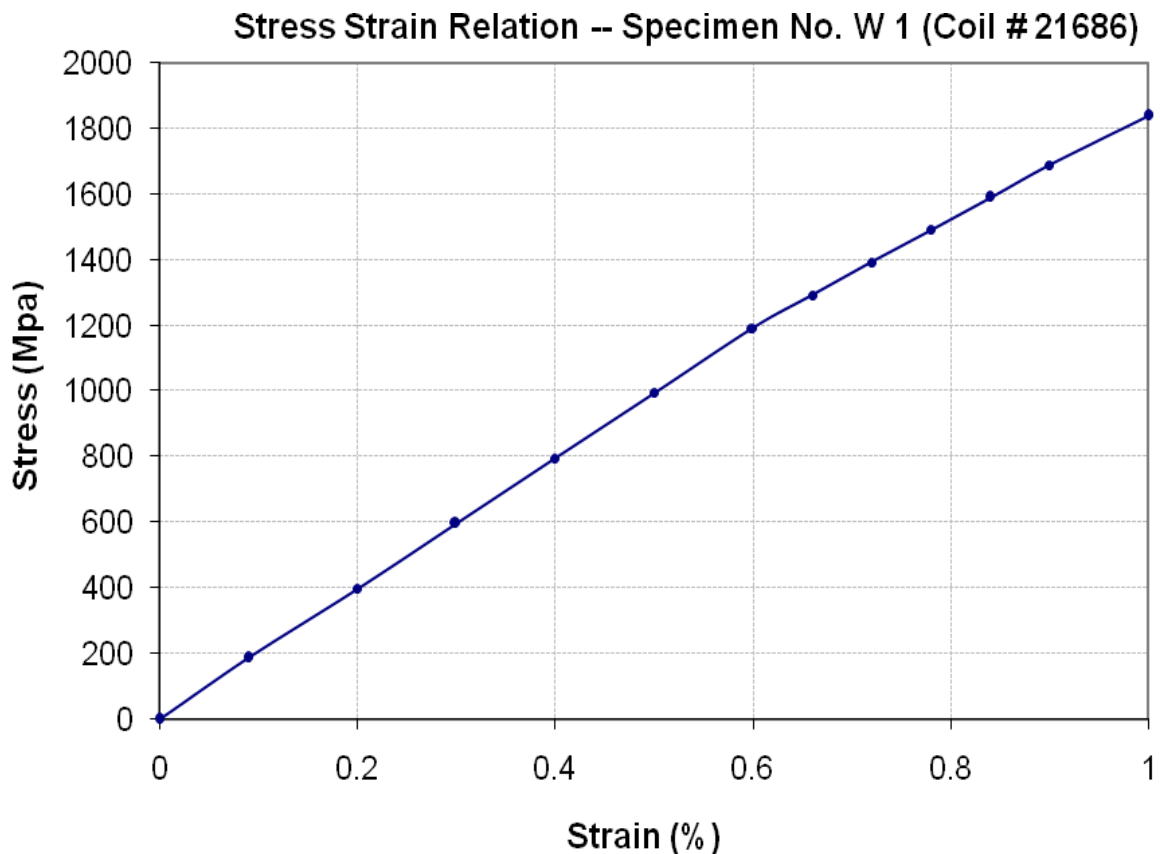
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Finite – CPM Jv
Improvement, Upgradation and Widening of Jaglot-Skardu (S-I) Road (164 km) on
Supplier/Buyer Credit Basis (EPC/Turnkey)
Reference # CED/TFL **35997** (Dr. Usman Akmal)
Reference of the request letter # FC/JV/JSR/2020/RE/F-223

Dated: 27-01-2021

Dated: 28-12-2020

Graph (Page – 2/5)



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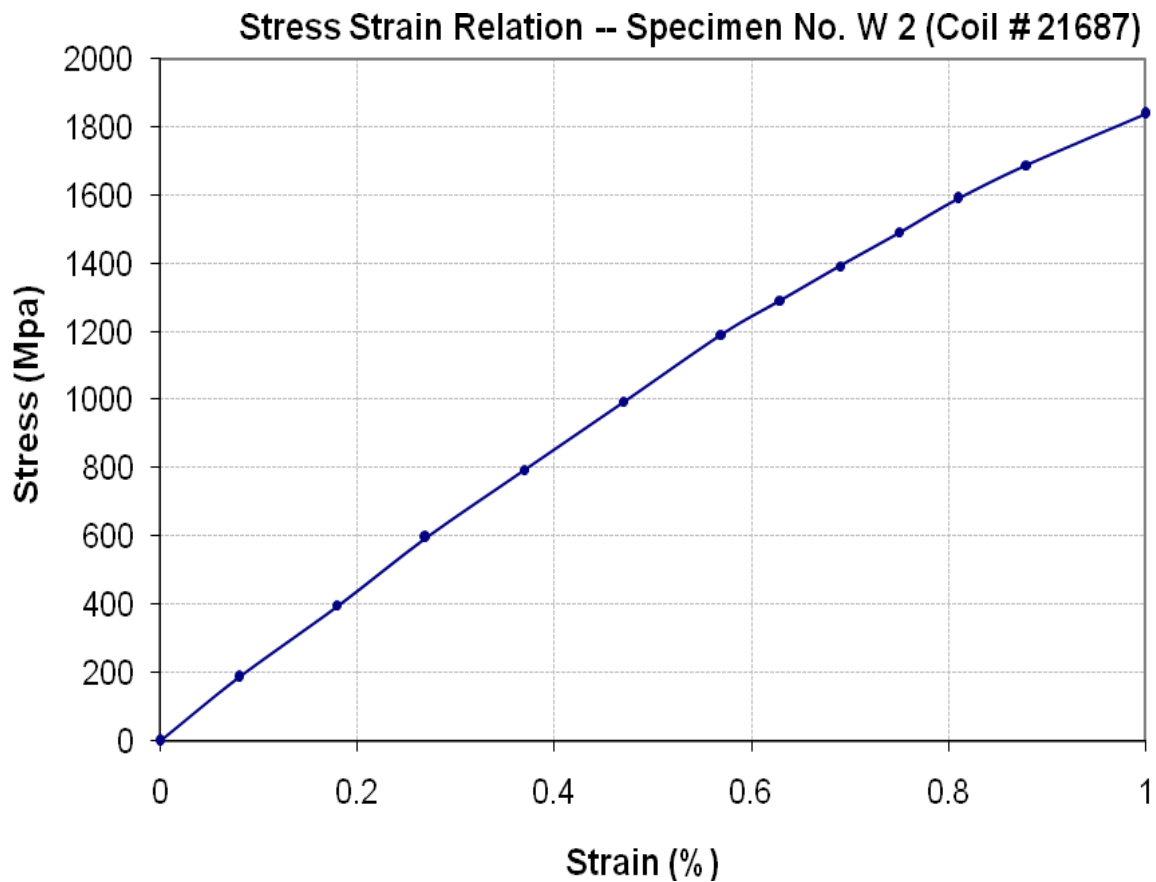


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Test Floor Laboratory
Department of Civil Engineering
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To,
Resident Engineer
Finite – CPM Jv
Improvement, Upgradation and Widening of Jaglot-Skardu (S-I) Road (164 km) on
Supplier/Buyer Credit Basis (EPC/Turnkey)
Reference # CED/TFL **35997** (Dr. Usman Akmal)
Reference of the request letter # FC/JV/JSR/2020/RE/F-223

Dated: 27-01-2021
Dated: 28-12-2020

Graph (Page – 3/5)



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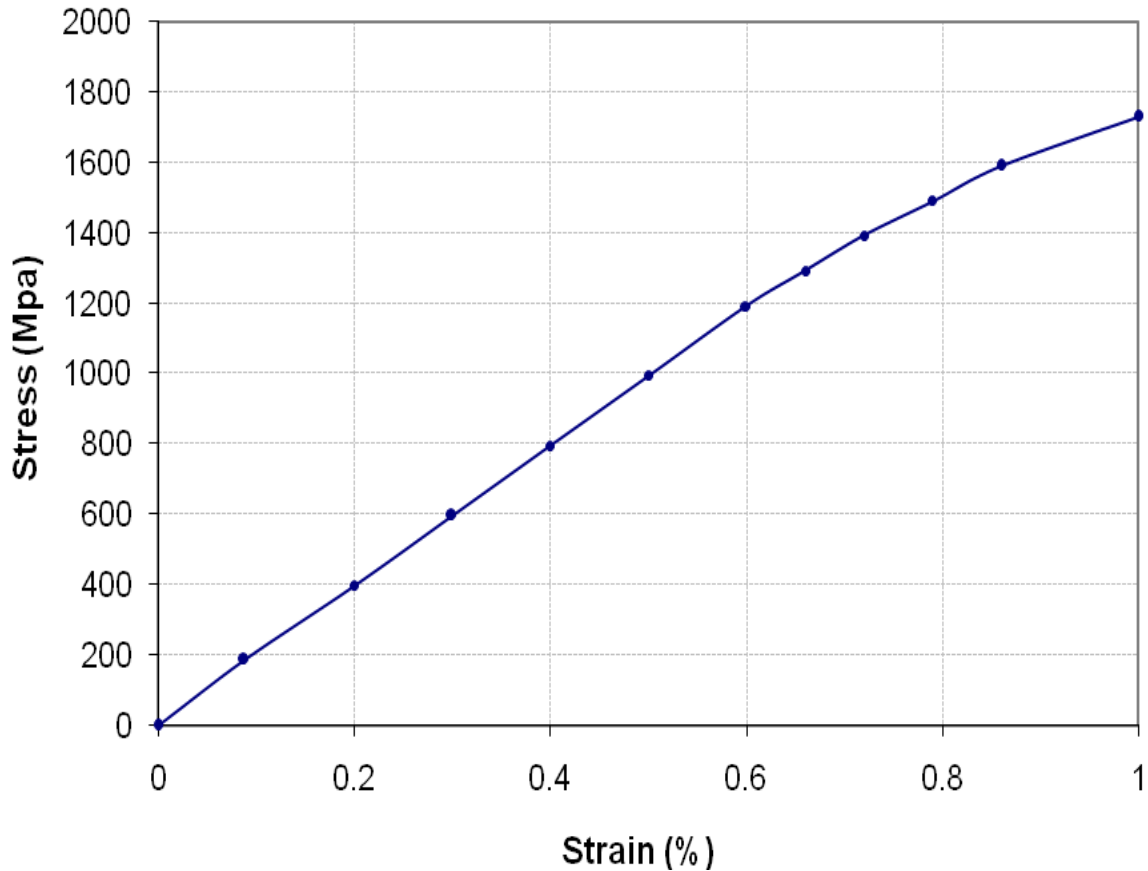
To,
Resident Engineer
Finite – CPM Jv
Improvement, Upgradation and Widening of Jaglot-Skardu (S-I) Road (164 km) on
Supplier/Buyer Credit Basis (EPC/Turnkey)
Reference # CED/TFL **35997** (Dr. Usman Akmal)
Reference of the request letter # FC/JV/JSR/2020/RE/F-223

Dated: 27-01-2021

Dated: 28-12-2020

Graph (Page – 4/5)

Stress Strain Relation -- Specimen No. W 3 (Coil # 21688)



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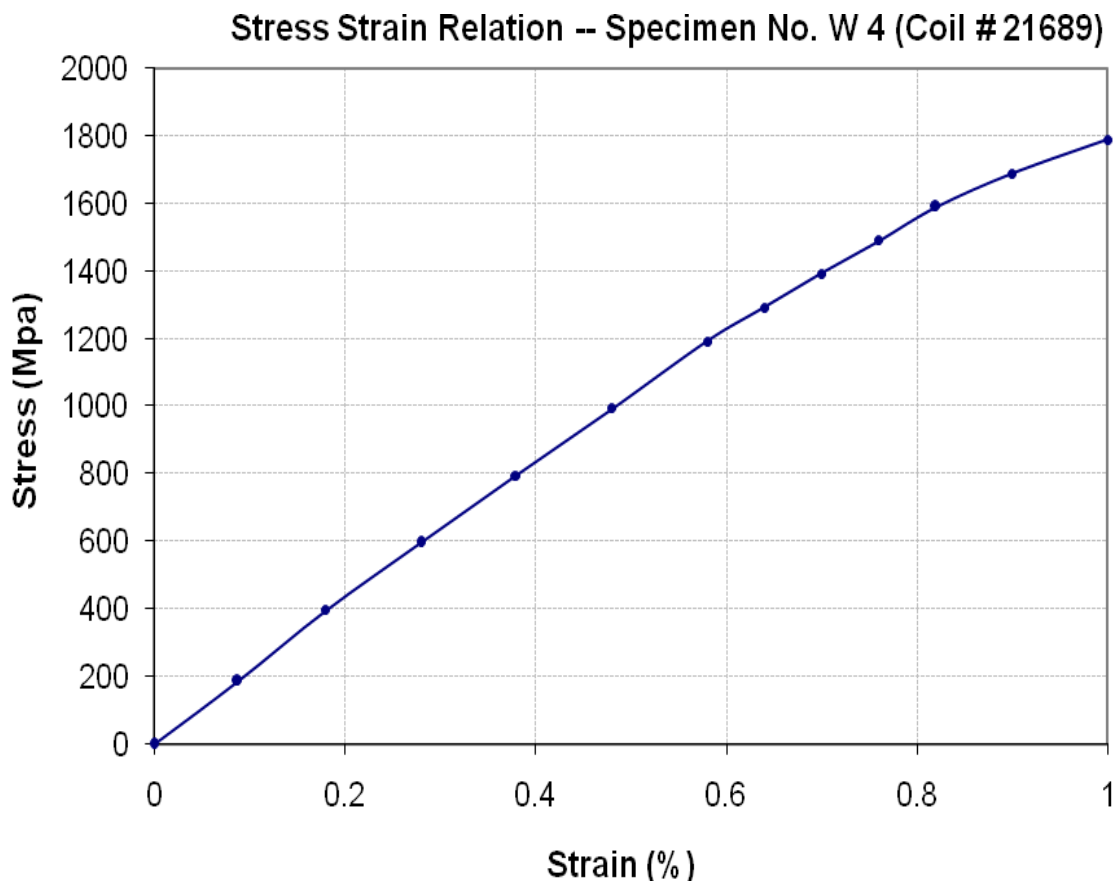
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Finite – CPM Jv
Improvement, Upgradation and Widening of Jaglot-Skardu (S-I) Road (164 km) on
Supplier/Buyer Credit Basis (EPC/Turnkey)
Reference # CED/TFL **35997** (Dr. Usman Akmal)
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Dated: 27-01-2021

Dated: 28-12-2020

Graph (Page – 5/5)



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UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Sub Divisional Officer
Highway Sub Division Jhelum
(Extension and Repair of Road from G.T Road to Bara Gharan via Khokha and Bodla kotiyam
including Puli Nullah Kahan Length 19.82 km, District Jhelum (Group-II Construction of Bridge)

Reference # CED/TFL **35998, 999** (Dr. Usman Akmal)
Reference of the request letter # 14/J

Dated: 27-01-2021
Dated: 26-01-2021

Tension Test Report (Page – 1/3)

Date of Test 28-01-2021
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	776.0	18400	180.50	20000	196.20	199	>3.50	xx
2	12.70 (1/2")	775.0	778.0	17100	167.75	20000	196.20	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only two samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratories
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Department of Civil Engineering
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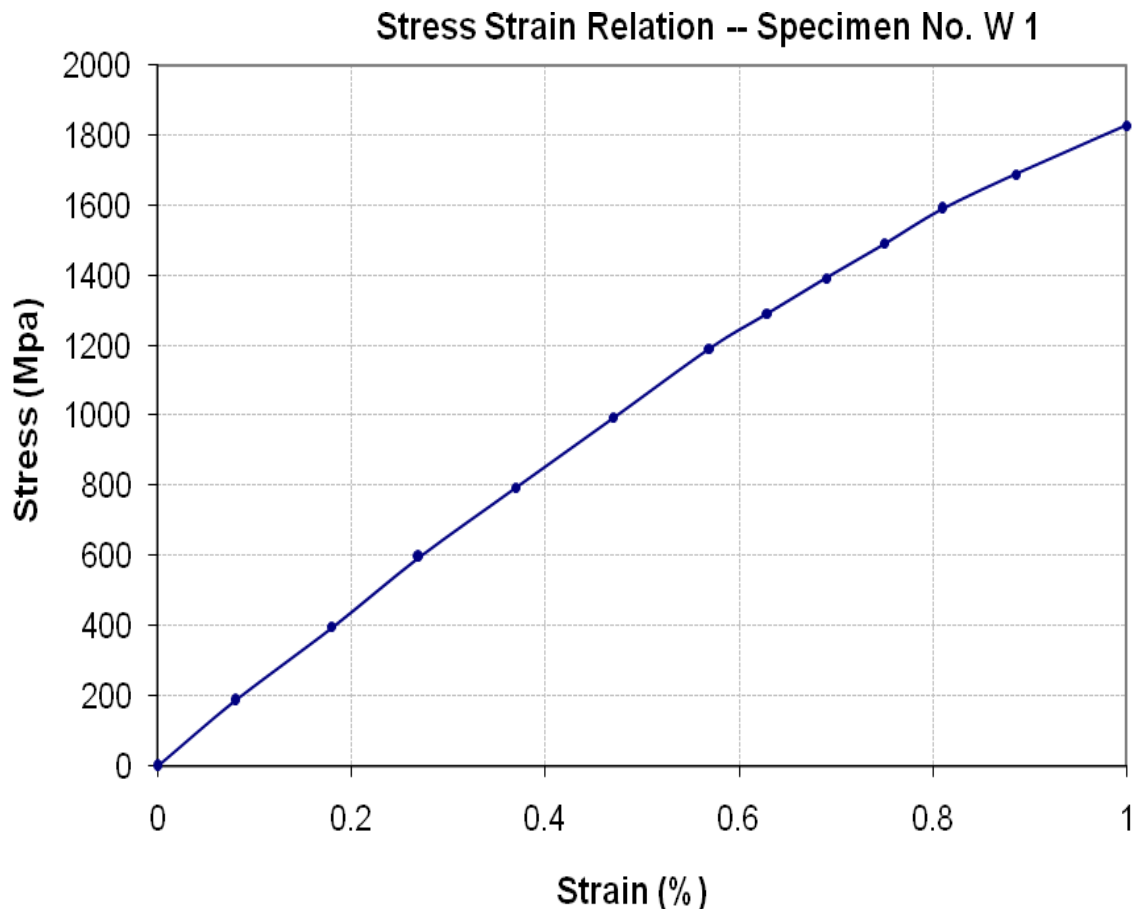
To,
Sub Divisional Officer
Highway Sub Division Jhelum
(Extension and Repair of Road from G.T Road to Bara Gharan via Khokha and Bodla kotiyam
including Puli Nullah Kahan Length 19.82 km, District Jhelum (Group-II Construction of Bridge)

Reference # CED/TFL **35998, 999** (Dr. Usman Akmal)
Reference of the request letter # 14/J

Dated: 27-01-2021

Dated: 26-01-2021

Graph (Page – 2/3)



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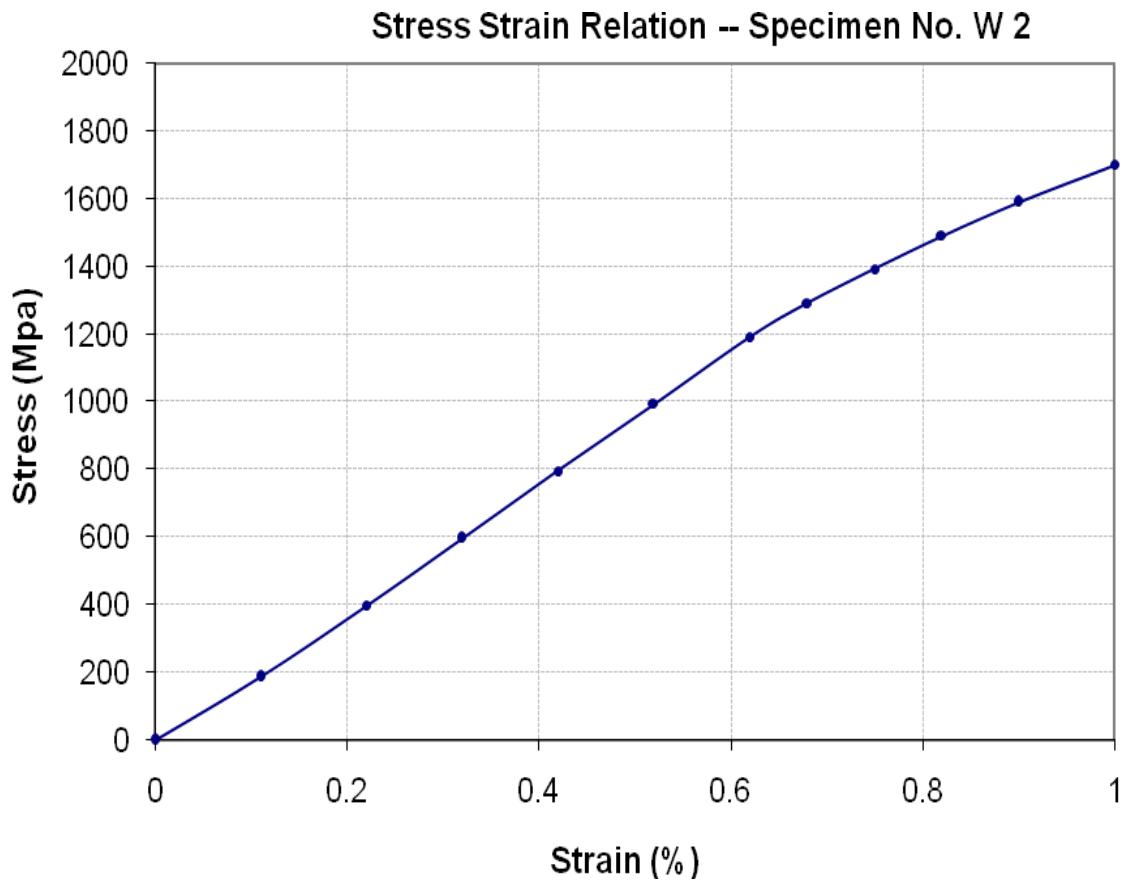
To,
Sub Divisional Officer
Highway Sub Division Jhelum
(Extension and Repair of Road from G.T Road to Bara Gharan via Khokha and Bodla kotiyam
including Puli Nullah Kahan Length 19.82 km, District Jhelum (Group-II Construction of Bridge)

Reference # CED/TFL **35998, 999** (Dr. Usman Akmal)
Reference of the request letter # 14/J

Dated: 27-01-2021

Dated: 26-01-2021

Graph (Page – 3/3)



To,
Sub Divisional Officer
Buildings Sub Division

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Kasur

Construction of 2-Nos. Additional Class Rooms at Govt. Boys Primary School Haveli Kamlay
 Khan Tehsil K.R.K District Kasur

Reference # CED/TFL **36000** (Dr. Usman Akmal)

Dated: 27-01-2021

Reference of the request letter # 13

Dated: 20-01-2021

Tension Test Report (Page -1/2)

Date of Test 28-01-2021

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.378	3/8	0.376	0.11	0.111	3100	4500	62200	61420	90200	89200	1.60	20.0	
2	0.378	3/8	0.376	0.11	0.111	3000	4500	60200	59570	90200	89400	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Buildings Sub Division
 Kasur
 Re-Construction of 4-Nos. Class Rooms in Govt. Boys High School Muhallam Kalan Tehsil &
 District Kasur
 Reference # CED/TFL **36000** (Dr. Usman Akmal) Dated: 27-01-2021
 Reference of the request letter # 18 Dated: 23-01-2021

Tension Test Report (Page -2/2)

Date of Test 28-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.378	3/8	0.376	0.11	0.111	3000	4500	60200	59480	90200	89300	1.70	21.3	
2	0.380	3/8	0.377	0.11	0.112	3000	4400	60200	59270	88200	87000	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Buildings Sub Division
 Pattoki
 Re-Construction of 2-Nos. Dangerous Class Rooms at Govt. Model Primary School Boor Singh
 Tehsil Chunian District Kasur
 Reference # CED/TFL **36001** (Dr. Usman Akmal)
 Reference of the request letter # 3351/P

Dated: 27-01-2021
 Dated: 20-01-2021

Tension Test Report (Page -1/1)

Date of Test 28-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.380	3/8	0.377	0.11	0.112	2900	4400	58200	57290	88200	87000	1.60	20.0	
2	0.371	3/8	0.373	0.11	0.109	3000	4400	60200	60590	88200	88900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 Orbit Housing
 The Springs, Apartment Lahore

Reference # CED/TFL **36005** (Dr. Asad Ali)
 Reference of the request letter # Nil

Dated: 28-01-2021
 Dated: 28-01-2021

Tension Test Report (Page -1/1)

Date of Test 28-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.11	0.107	2800	4030	56200	57410	80800	82700	1.50	18.8	
2	0.366	3	0.370	0.11	0.108	2750	3890	55100	56370	78000	79800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples